

# DAQ update

Chao Peng, Xuefei Yan

Duke University

07/17/2014

# DAQ system

- The ROCs for two Fastbus crates and VME crate are set up
  - MVME 5100 CPU for Fastbus crates
  - MVME 2436 CPU for VME crate
  - Boot information is updated
- Still waiting for Trigger Interface from Sergey
  - Sergey encountered some problems in using TIs in CLAS12 DAQ system, he wanted to solve them first then try to implement TIs for the Fastbus crates
  - The master TI needs to be modified to be installed in our crate, the work is ongoing

# High Voltage and Chiller

- Thanks to Mahbub, the windows machine with the controlling program of chiller can be used now
  - Xuefei tested the program, but we need the sensors inside HyCal box to be connected (in 1~2 days)
- High Voltage programs were revived
  - Every high voltage crate (primexhv1~5) was tested one by one
  - Some problems were found

# High Voltage and Chiller

- primexhv1, primexhv2 and primexhv3 worked. They can be communicated and controlled by the program
- The cpu board of primexhv4 seems dead, no output, no communication
- primexhv5 can boot, but it stops at “Detecting IDE Primary Slave...”, and thus no communication

**Channel Info**

Detector: W113  
Group: TGW2

**Address**

Crate: primexhv3  
Slot: 4  
Channel: 14

**Status**

Channels monitored: 2  
primexhv1: --unknown--  
primexhv2: --unknown--  
primexhv3: CONNECTED  
primexhv4: --unknown--  
primexhv5: --unknown--

**PbGlass Group Set**

All ON All OFF

Group Set PbGlass

**PbWO4 Group Set**

All ON All OFF

**W113 HV channel Info for: W113**  
crate: primexhv3 slot: 4 channel: 14

W113 channel info: W113 Vset 921 Vmon 1.8 OFF 17

Primary channel info: PRIMARY3\_4 Vset 1515 Vmon 3.0 OFF 17

**Associated Channels**

PRIMARY3_4	W149	W112	W45	G160	G70	W81
	W13	G130	G40	W182	W117	W79
	G10	W151	W114	W47	G162	G72
	W82	W44	G132	G42	W12	W147
	G102	G12	W181	W116	W78	W11
	W150	W113	W46	G161	G100	W148
	W14	G131	G41	G101	W146	W80
	G11	W180	W115	W48	W10	G71

Dismiss

# Future plan

- DAQ
  - Will keep reminding that we need the TIs
  - Take pedestal data after the TIs are setup
- High Voltage
  - Ask fast electronic group to see if the primexhv4 can be repaired, or ask CAEN to see if it can be repaired
  - Test each channel to PMT one by one when the chiller can work
- Chiller
  - Take the sensors readout using the program
  - Connect the chiller pipe and try to control it